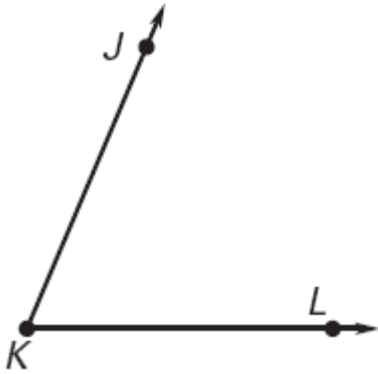


Geometry Date\_\_\_\_\_ 1.4 Assignment  
Angles and Their Measures (pp 26-28)

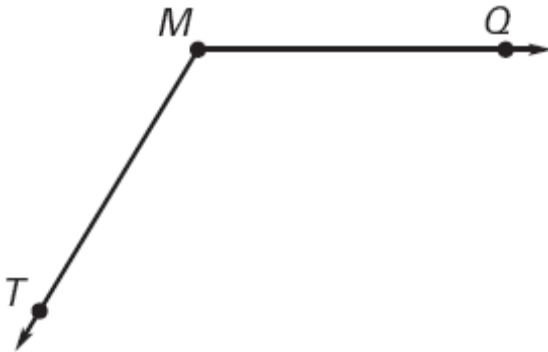
1. What is your name?

Use a protractor to measure each angle to the nearest degree.  
Write two names for each angle.

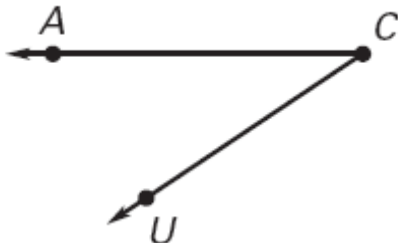
2.



3.



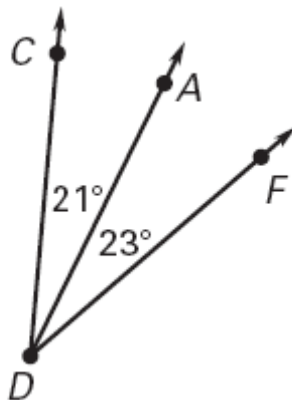
4.



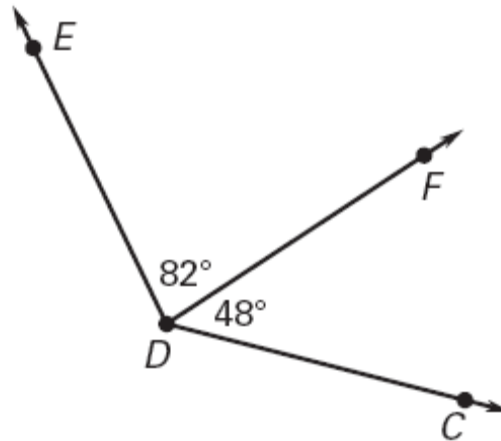
Geometry Date \_\_\_\_\_ 1.4 Assignment  
Angles and Their Measures (pp 26-28)

Use the Angle Addition Postulate to find the measure of the unknown angle.

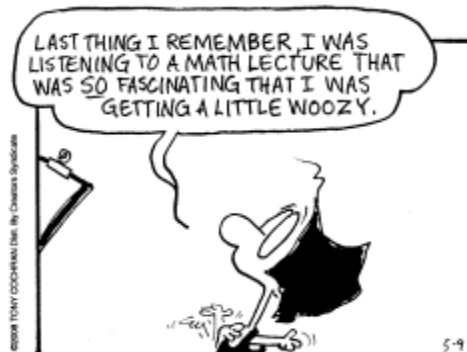
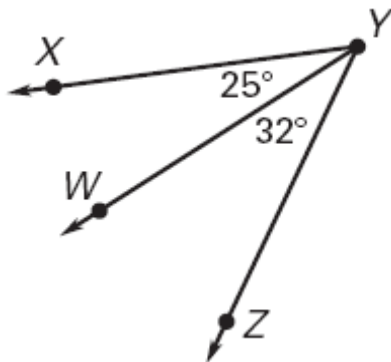
5.  $m\angle FDC$



6.  $m\angle CDE$



7.  $m\angle XYZ$



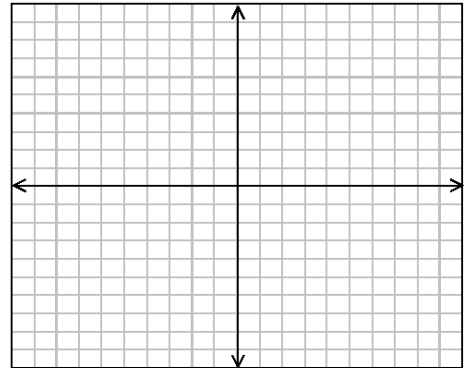
Geometry Date\_\_\_\_\_ 1.4 Assignment  
Angles and Their Measures (pp 26-28)

In a coordinate plane, plot the points and sketch  $\angle ABC$ . Classify the angle. Write the coordinates of a point that lies in the interior of the angle and the coordinates of a point that lies in the exterior of the angle.

$$A(-5, -4)$$

8.  $B(-3, 0)$

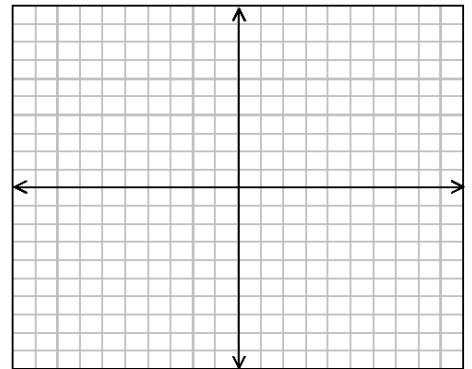
$$C(1, -4)$$



$$A(-5, 0)$$

9.  $B(-1, -4)$

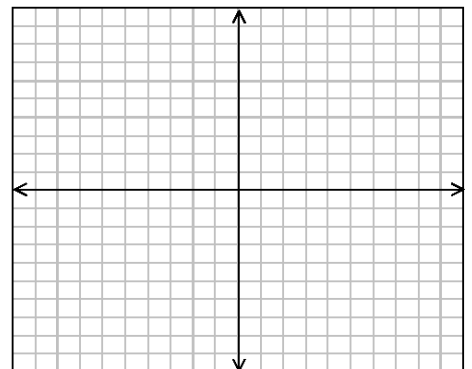
$$C(4, 2)$$



$$A(0, 1)$$

10.  $B(-2, -4)$

$$C(-7, -2)$$



**Geometry Date\_\_\_\_\_ 1.4 Assignment**  
**Angles and Their Measures (pp 26-28)**

$Q$  is in the interior of  $\angle ROS$ .  $S$  is in the interior of  $\angle QOP$ .  $P$  is in the interior of  $\angle SOT$ .  $m\angle ROT = 127^\circ$ ,  $m\angle SOT = 71^\circ$ , and  $m\angle ROQ = m\angle QOS = m\angle POT$ . Make a sketch and answer the following.

11. Find  $m\angle QOP$

12. Find  $m\angle QOT$

13. Find  $m\angle ROQ$

14. Find  $m\angle SOP$ .

Let  $Q$  be in the interior of  $\angle POR$ . Use the Angle Addition Postulate to solve for  $x$ . Find the measure of each angle.

$$m\angle POQ = (x + 4)^\circ$$

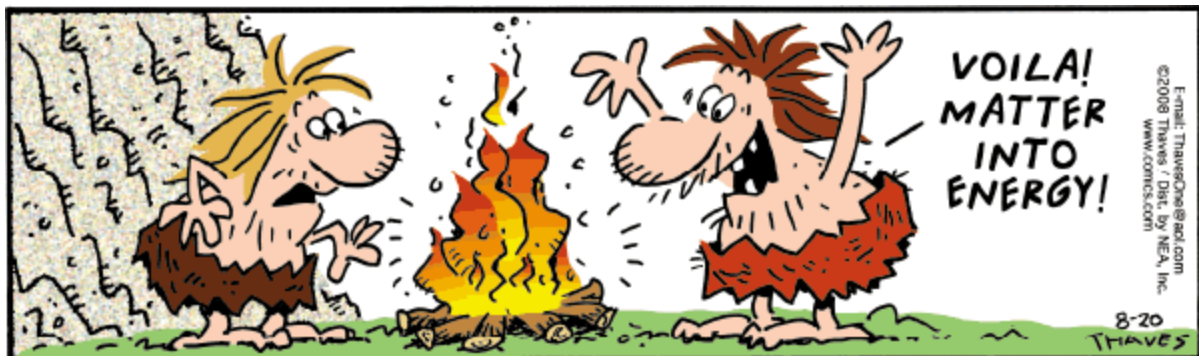
15.  $m\angle QOR = (2x - 2)^\circ$

$$m\angle POR = 26^\circ$$

$$m\angle POQ = (3x + 7)^\circ$$

16.  $m\angle QOR = (5x - 2)^\circ$

$$m\angle POR = 61^\circ$$



**Geometry Date\_\_\_\_\_ 1.4 Assignment**  
**Angles and Their Measures (pp 26-28)**

$$m\angle POQ = \left(\frac{1}{3}x + \frac{1}{3}\right)^\circ$$

$$17. m\angle QOR = \left(2x + \frac{4}{3}\right)^\circ$$

$$m\angle POR = (5x - 1)^\circ$$

**Review.**

**Solve for  $x$ .** (p 790)

$$18. \frac{8+x}{2} = -1$$

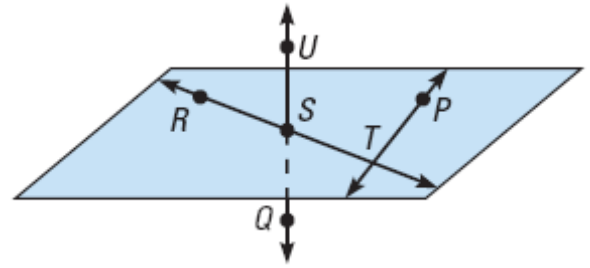
$$19. \frac{x+4}{2} = -4$$

$$20. \frac{-9+x}{2} = -7$$

$$21. \frac{x+(-3)}{2} = -4$$

Geometry Date\_\_\_\_\_ 1.4 Assignment  
Angles and Their Measures (pp 26-28)

Decide whether the statement is *true*  
or *false*. (Chapter 1 Section 2).



22. \_\_\_\_\_  $U$ ,  $S$ , and  $Q$  are collinear.

23. \_\_\_\_\_  $T$ ,  $Q$ ,  $S$ , and  $P$  are coplanar.

24. \_\_\_\_\_  $\overleftrightarrow{UQ}$  &  $\overleftrightarrow{PT}$  intersect.

25. \_\_\_\_\_  $\overrightarrow{SR}$  &  $\overrightarrow{TS}$  are opposite rays.

Find the distance between the two points. (Chapter 1 Section 3).

26.  $J(5, 7)$  &  $K(7, 5)$

27.  $C(0, 8)$  &  $D(-8, 3)$

28.  $G(10, -2)$  &  $H(0, 9)$

29.  $L(0, -3)$  &  $M(-3, 0)$